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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/823,920	04/14/2004	Imtiaz Rangwalla	05716.0013-00000	6117
22852 75	7590 08/25/2006		EXAMINER	
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			SHEWAREGED, BETELHEM	
			ART UNIT	PAPER NUMBER
			1774	
		I		5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		10/823,920	RANGWALLA, IMTIAZ	
		Examiner	Art Unit	
		Betelhem Shewareged	1774	
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address	
A SHI WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sign of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on 19 Ju This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims			
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1-13 and 15-43 is/are pending in the address of the above claim(s) 27-37 is/are withdraw Claim(s) is/are allowed. Claim(s) 1-13,15-26 and 38-43 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine	vn from consideration. r election requirement.		
	The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. Section is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority u	ınder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau see the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
	e of References Cited (PTO-892)	4) Interview Summary		
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)	

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DETAILED ACTION

1. Applicant's response filed on 06/19/2006 has been fully considered. Claims 1, 13, 15, 20 and 38 are amended, claim 14 is canceled, claim 39-43 are added, claims 1-13 and 15-43 are pending. (NOTE: Claims 27-37 are withdrawn from consideration as non-elected invention).

Election/Restrictions

- 2. Applicant's election with traverse of Group I in the reply filed on 06/19/2006 is acknowledged. The traversal is on the ground(s) that a search involving claims 27-37 could be done without any undue burden on the Examiner. This is not found persuasive because the search for the first group is done class 428 and the search for the second group is done in class 427, and search involving two distinct groups put undue burden on the Examiner.
- 3. The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

- 4. Claims 1-13, 15-26 and 38-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rangwalla et al. (US 2003/0001108 A1) in view of Pennaz (US 5,382,282).
- 5. Rangwalla discloses a packaging material comprising a substrate, a lacquer coating on the substrate, and an ink print layer between the substrate and the ink print layer, wherein the lacquer coating substantially identical to the claimed lacquer ([0097]-

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[0108]), and has a normalized thickness of 0.5-20 g/m² [0109]. The substrate is disclosed in [0112]. The lacquer is curable by particle beam machine [0110] and [0111]. Sandwiching the print layer and any intermediate layer between materials that are used for forming the substrate is well known in the packaging material art (see Example 8). The ink in the print layer can be electron beam curable [0116]. Rangwalla does not disclose the claimed ink composition.

- 6. Pennaz teaches an electron beam curable ink composition for printing, wherein the ink composition is disclosed in (col. 20, lines 1-43).
- 7. Rangwalla and Pennaz are analogous art because they are from the same field of endeavor that is the particle beam curable material art. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the ink composition of Pennaz with the invention of Rangwalla so as to provide a printed packaging material containing ink composition having enhanced water stability and viscosity (see col. 19, line 38 of Pennaz).

Response to Arguments

8. Applicant's argument is based on that there is no motivation for combining the invention of Rangwalla and Pennaz. This argument is not persuasive because Rangwalla teaches a substrate and a lacquer substantially identical to the claimed substrate and lacquer, respectively. Rangwalla further teaches that an ink print layer provided between the substrate and the lacquer (see previous rejection). Even though Rangwalla does not teach the use of electron beam curable ink composition selected

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from acrylate esters, vinyl ethers, cycloaliphatic diepoxides, and polyols; Rangwalla teaches the use of electron beam curable ink composition. In addition, Pennaz teaches the use of electron beam curable ink composition selected from acrylate esters, vinyl ethers, glycol and compound listed in col. 20, lines 1-43). The ink composition of Pennaz is provided on a paper or other print substrate (col. 1, line 65 thru col. 2, line 3). The motivation for combining Rangwalla and Pennaz is the need for the use of electron beam curable ink composition to be applied on a layered material.

- 9. Applicant further argues that Rangwalla, Pennaz or combination of Rangwalla and Pennaz do not teach or suggest bonding between the ink layer and the lacquer. This argument is not persuasive because since neither Rangwalla nor Pennaz expressly discloses that the ink does not bond with lacquer, and both the ink and the lacquer are cured by the same method of curing, the ink inherently bonds with the lacquer.
- 10. For the above reasons, claims 1-13, 15-26 and 38 stand rejected and claims 39-43 are included on the rejection.

Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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12. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 571-272-1529. The examiner can normally be reached on Mon.-Fri. 8:00AM-4:30PM.
- 14. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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15. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

B.S. August 22, 2006.

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